



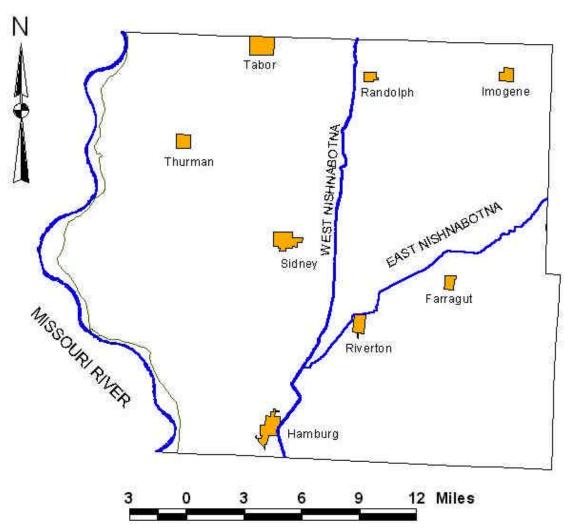
By David Carter, Fremont SWCD Wetland Specialist

**United States Department of Agriculture** 





# Two River's Project Easements and Applications



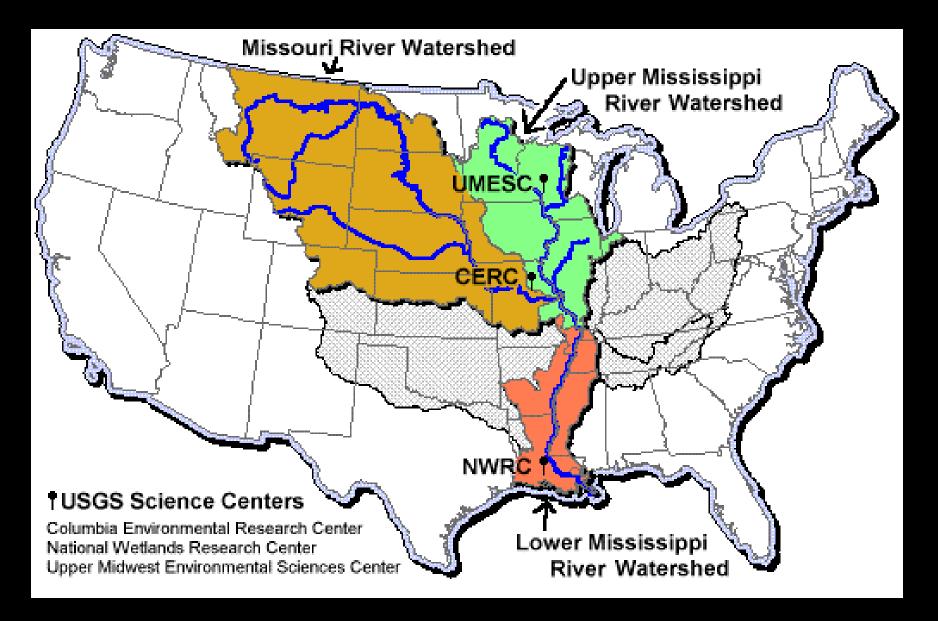
Fremont County has three rivers which can flood over 30,000 acres at any one flood event.



#### Nishnabotna River Watershed

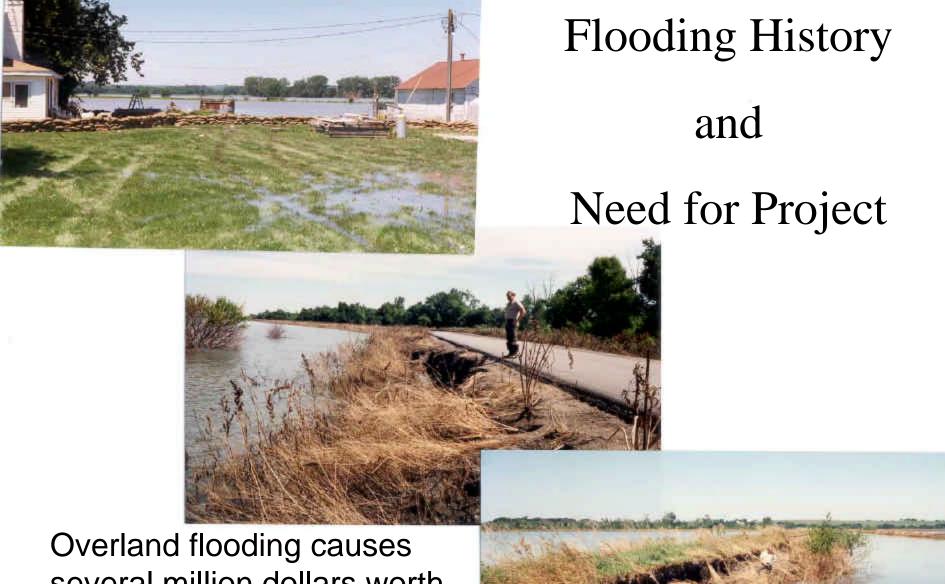


#### Our other flood plain involves a slightly larger watershed.



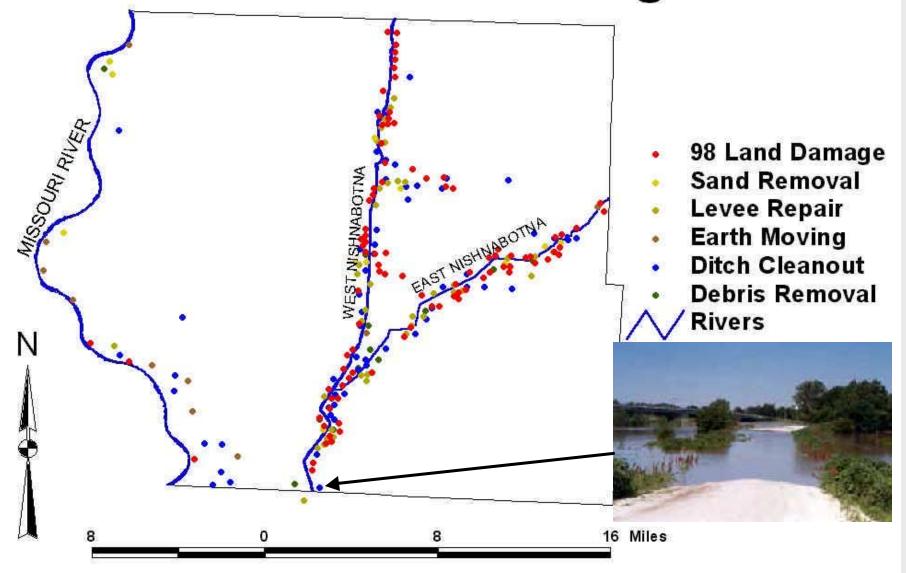
# Overview

- Flooding History and Need for Project Partnerships
- Two Rivers Project Objectives
  - Wetland and Riverine Habitat Restoration
  - Easement Program Management
  - Wetland and Riverine Systems Education & Outreach

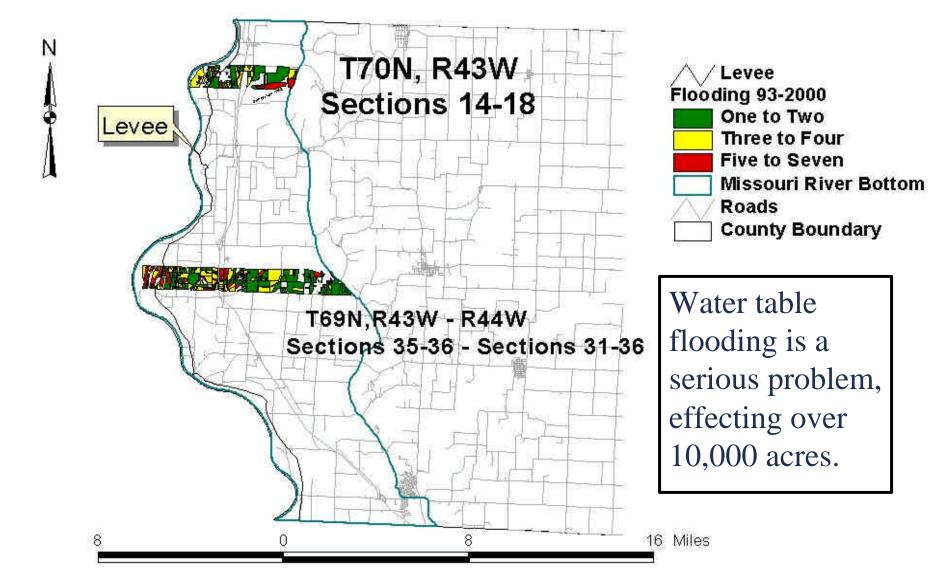


Overland flooding causes several million dollars worth of damages to homes, towns and cropland.

### 98 Flood Damage



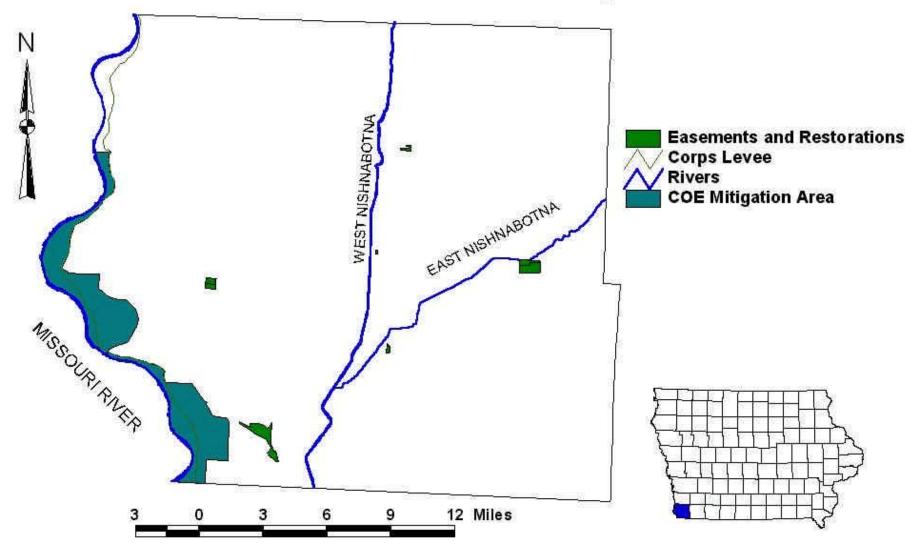
### Recently Damaged Crops in Fremont County



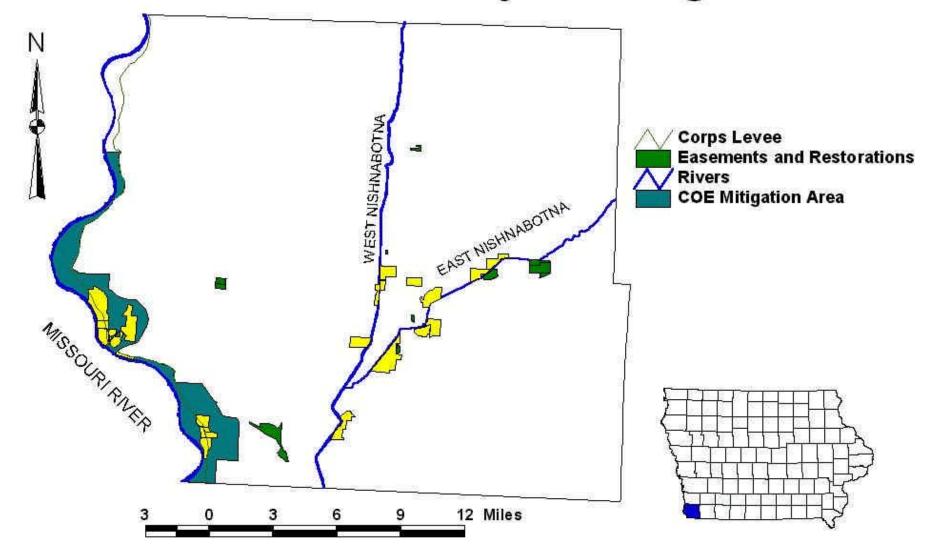




## Easements Prior to Two Rivers Project



## Easements Accepted Since Two Rivers Project Began



#### **Wetland Restoration**

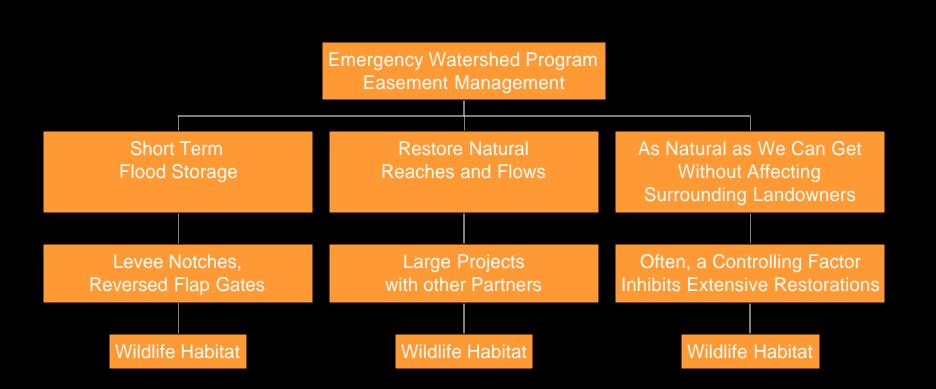
Wetland Reserve Program Easements Restorations

Restore Hydrology if at all Possible

Use Leeves and Crossdikes for Different Habitats

Sometimes, Nothing Is Done, but Nature Is Allowed to Take Over

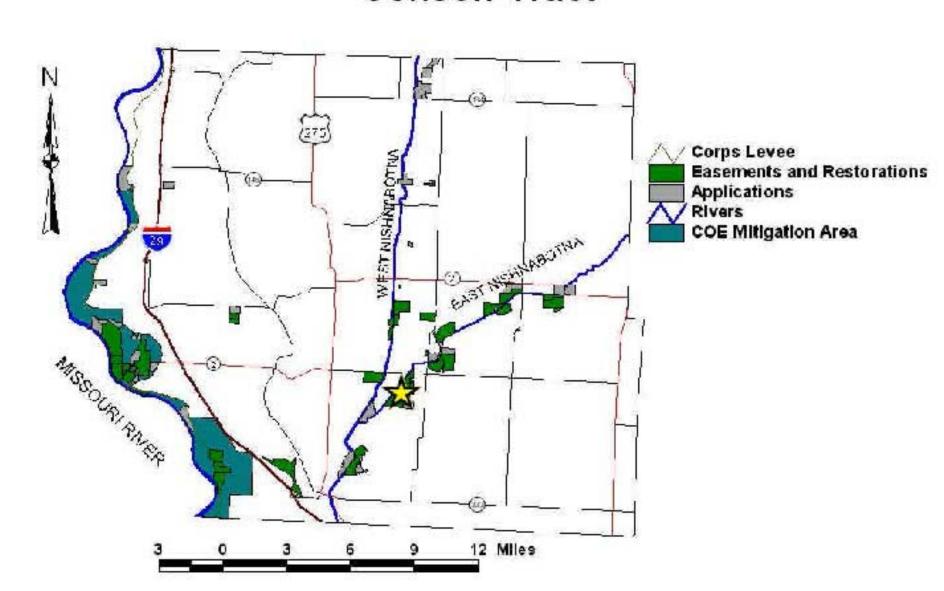
#### **Flood Plain Restoration**



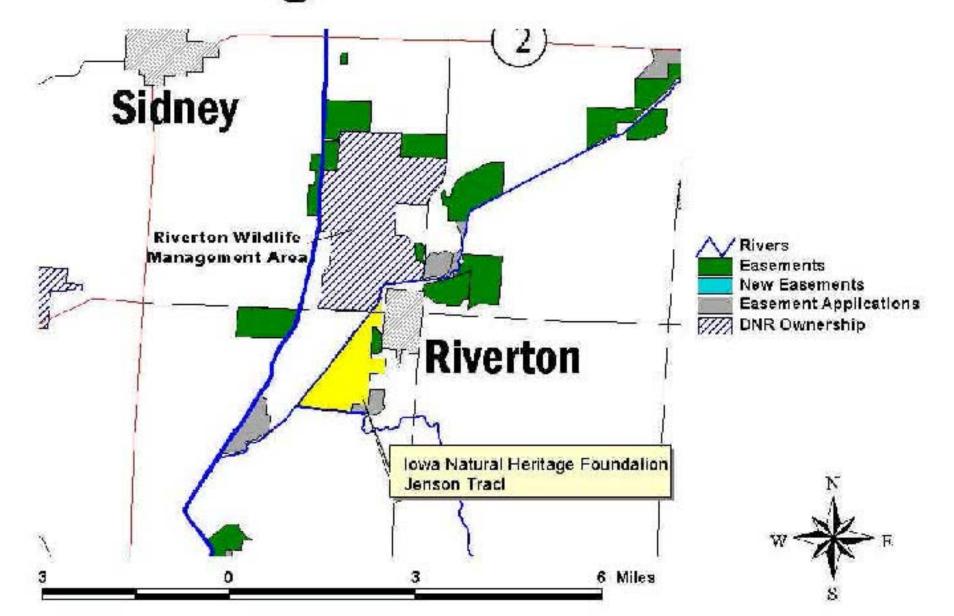
#### **Easement Restoration Partners**

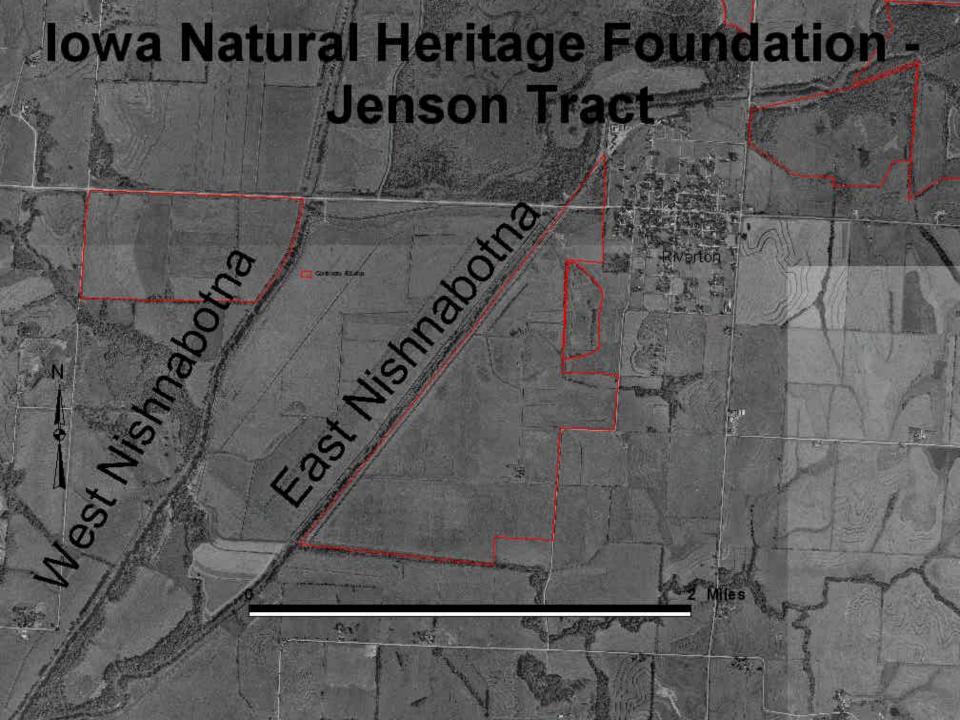
- Environmental Protection Agency fund district employee/wetland specialist and special projects, such as outdoor classroom.
- Ducks Unlimited and US Fish & Wildlife Service provides cost-share incentives from \$500 per person for work not covered by NRCS/DSC.
- Drainage Districts provided cost-share for flood control.
- US Army Corps of Engineers and lowa
   Department of Natural Resources buy residual values of easements and completes and manages restoration.

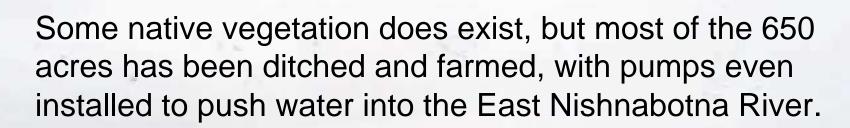
# Iowa Department of Natural Resources Jenson Tract



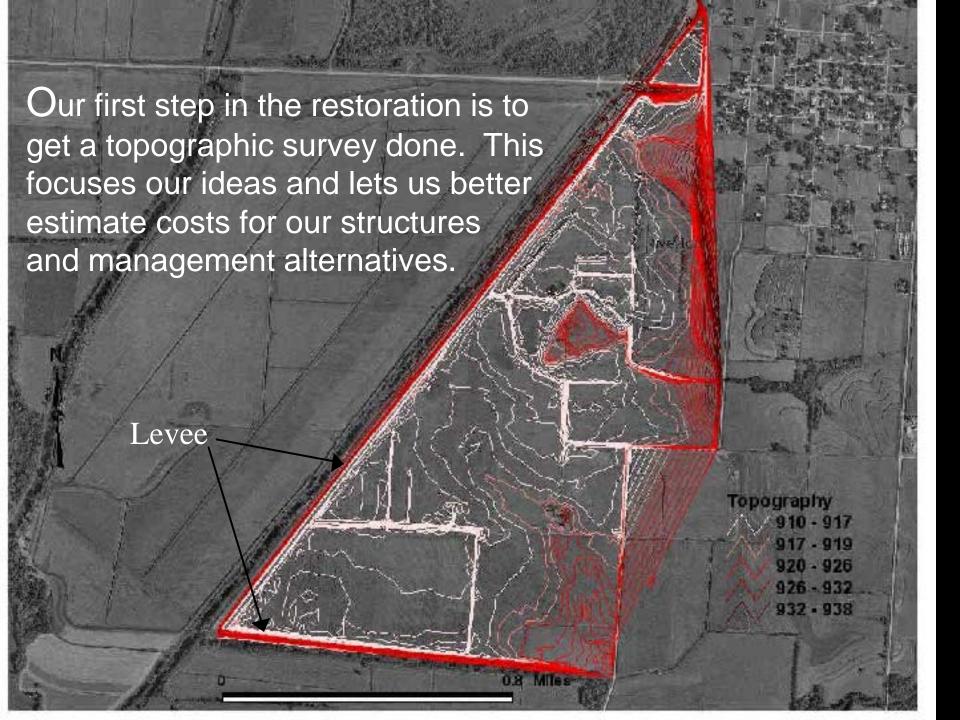
#### Management Alternatives

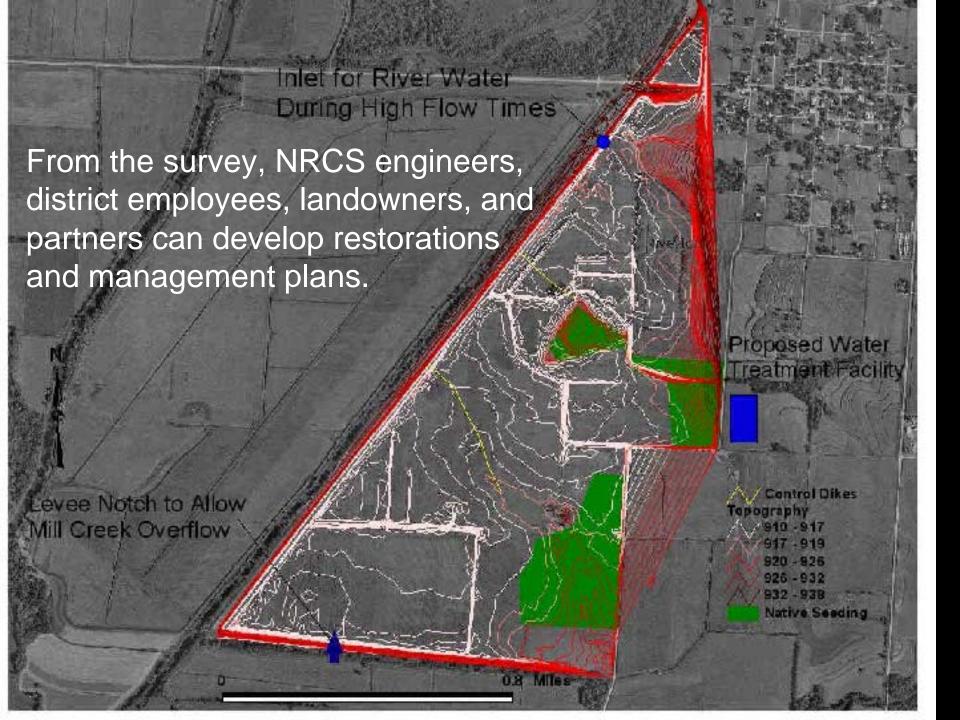




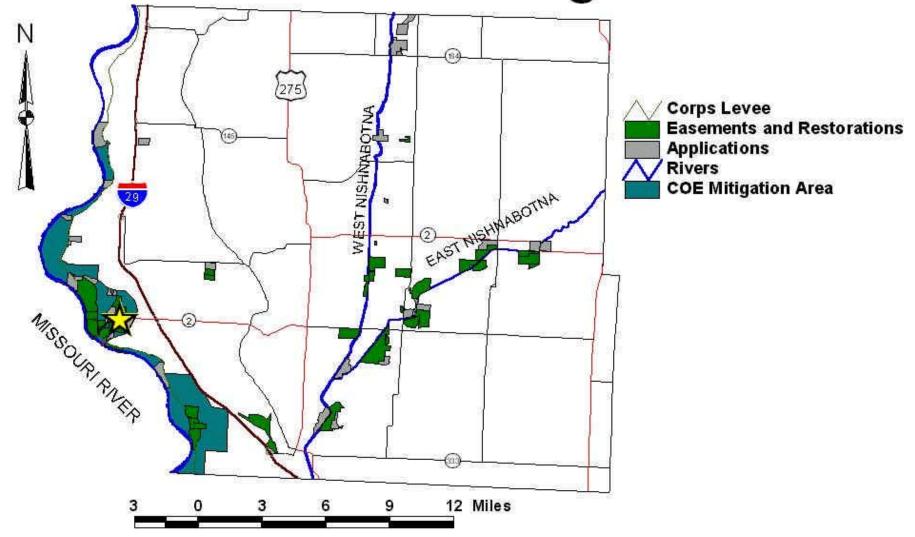


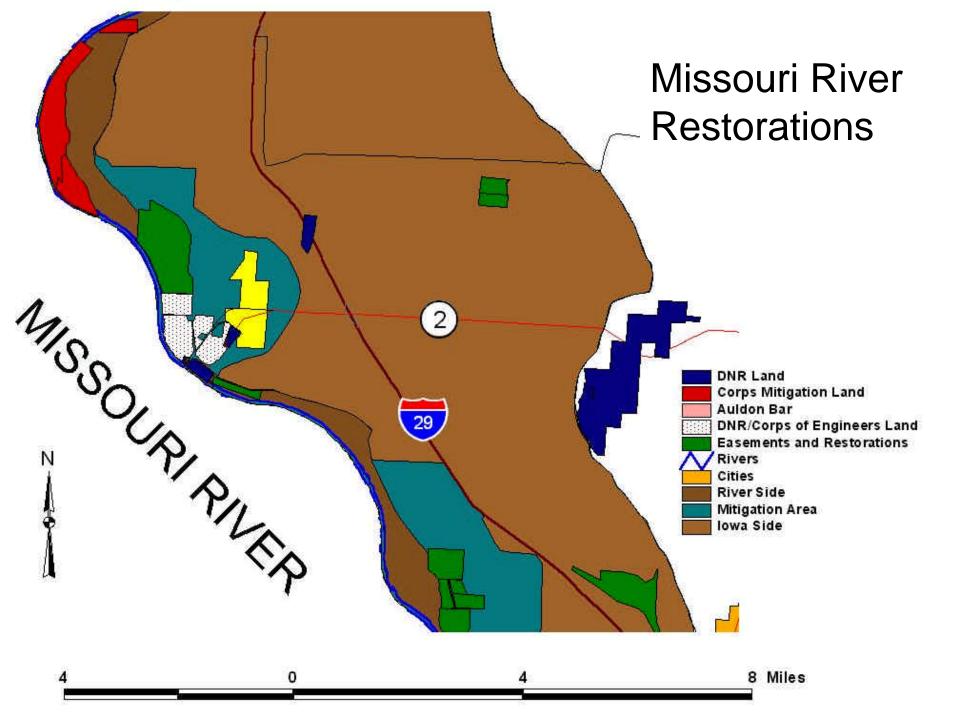


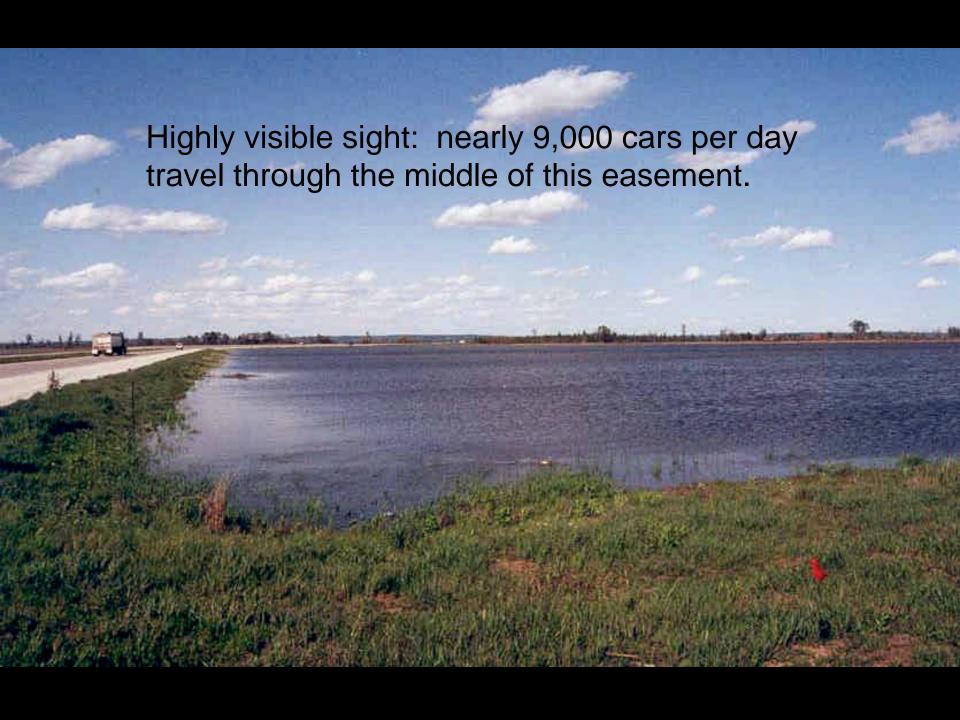




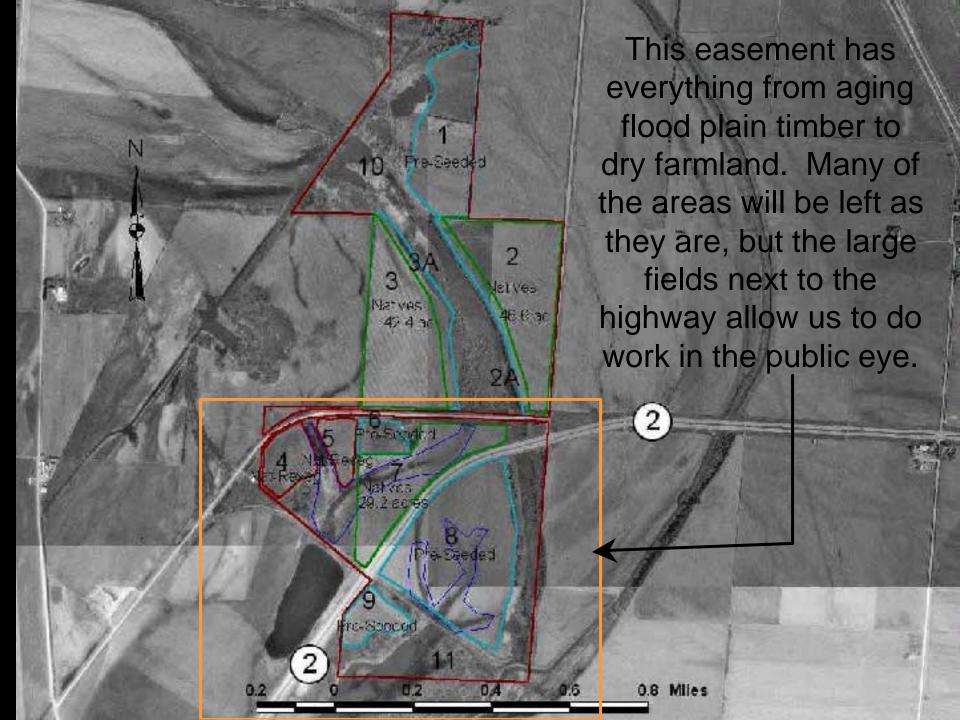
## Missouri River/Highway 2 Easement Management

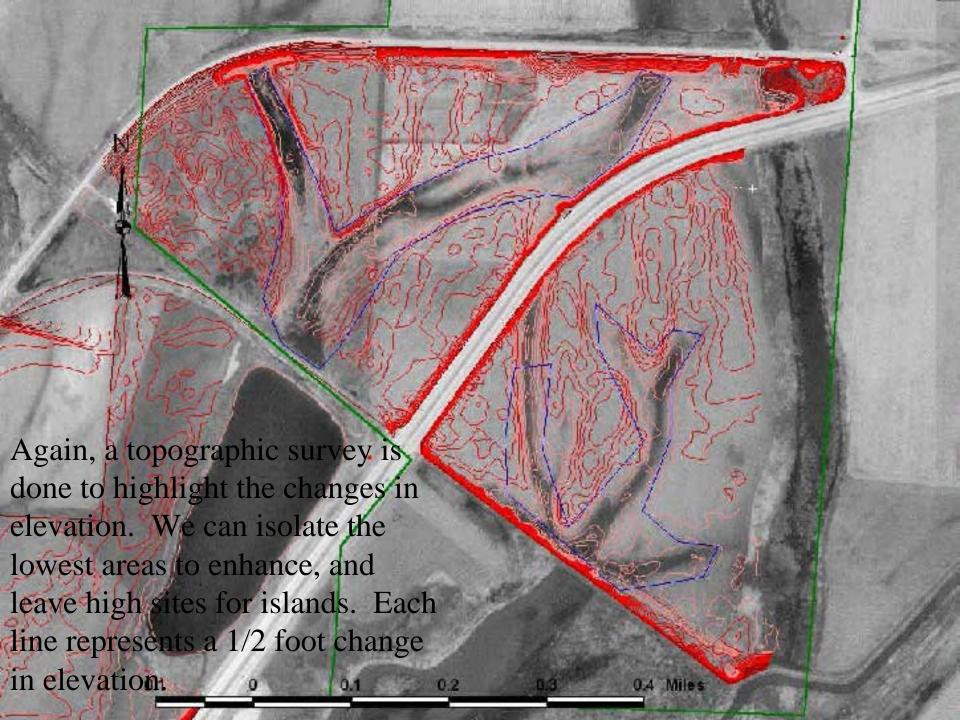












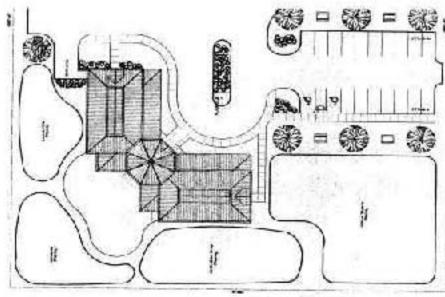
### Reaching the Public

#### **Southwest Iowa Visitor's Center**



Proposed Building with indoor wetland displays.

Wetland/Natural Resources Education and Display Area





Bike trails through these new permanent wetland easements could increase the number of people who see the area and take notice of NRCS programs.







# Conclusion

- Fremont County has enrolled over 5,500 acres since 1998 by working together with its partners.
- •Plans are to enroll an additional 4,000 in the next few years.
- •Restorations vary widely from Nishnabotna Rivers to the flood plain of the Missouri River.
- Native vegetation will be restored on easements, considering data from original land surveys, current site conditions, and landowner objectives.
- •Through our programs, we can reduce flood damage within the county, and provide nearly 7,000 acres of wetland, flood plain and upland habitat that was nearly all cropland only a few years ago.

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